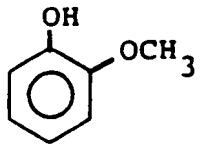
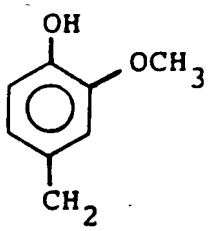
PHENOL C_6H_5OH

FIG. 1



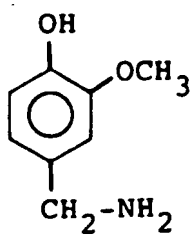
ORTHO-METHOXYPHENOL $CH_3OC_6H_4OH$

FIG. 2



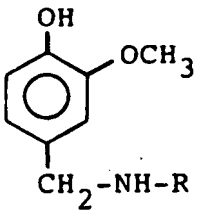
VANILLYL $(CH_3O)(OH)C_6H_3-CH_2$

FIG. 3



3-METHOXY-4-HYDROXYBENZYLAMINE $(CH_3O)(OH)C_6H_3-CH_2-NH_2$

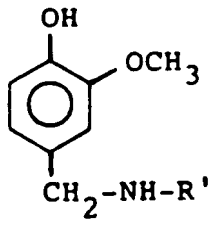
FIG. 4



where R is an organic hydrocarbon group

VANILLYLAMIDE $(CH_3O)(OH)C_6H_3-CH_2-NH-R$

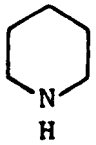
FIG. 5



STRUCTURAL FORMULA	CAPSAICINOID
R'-CO-$(CH_2)_4$-CH=CH-CH-$(CH_3)_2$	CAPSAICIN
R'-CO-$(CH_2)_6$-CH-$(CH_3)_2$	DIHYDROCAPSAICIN
R'-CO-$(CH_2)_5$-CH-$(CH_3)_2$	NORDIHYDROCAPSAICIN
R'-CO-$(CH_2)_9$-CH-$(CH_3)_2$	HOMODIHYDROCAPSAICIN
R'-CO-$(CH_2)_5$-CH=CH-CH-$(CH_3)_2$	HOMOCAPSAICIN
R'-CO-$(CH_2)_7$-CH_3	NONANOIC ACID VANILLYLAMIDE
R'-CO-$(CH_2)_8CH_3$	DECANOIC ACID VANILLYLAMIDE

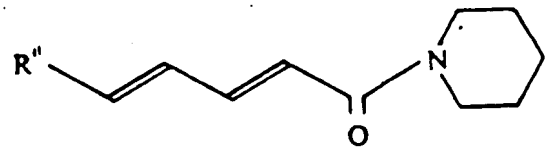
CAPSAICINOIDS

FIG. 6

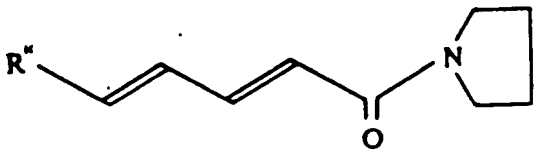


PIPERIDINE $(CH_2)_5NH$

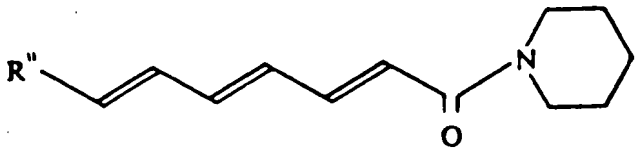
FIG. 7



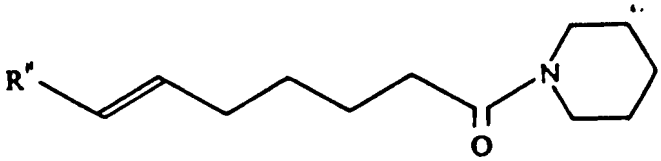
PIPERINE



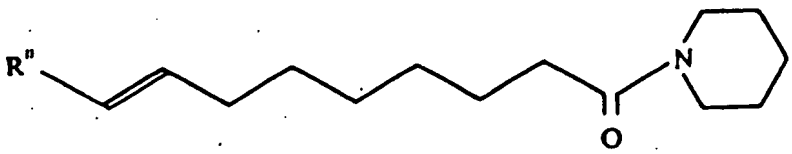
PIPERYLINE



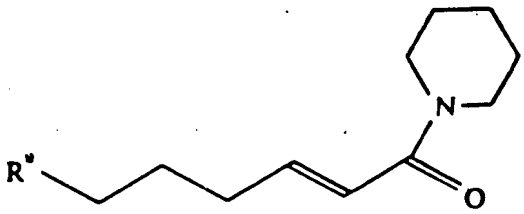
PIPERETTINE



PIPEROLEIN A

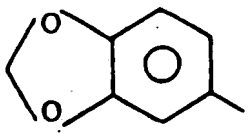


PIPEROLEIN B



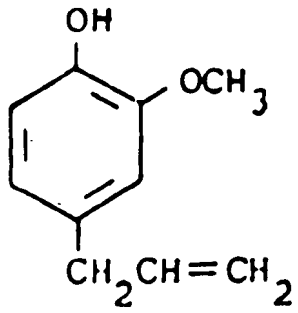
PIPERANINE

where R" =



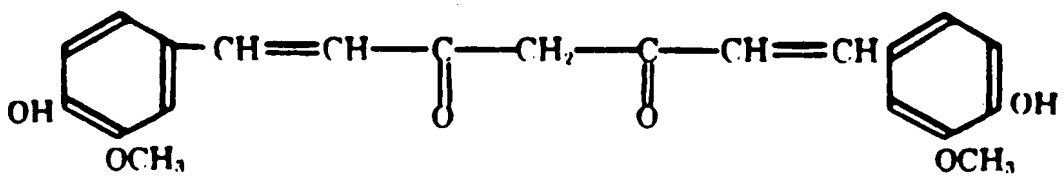
PUNGENT ALKALOID PRINCIPALS OF PEPPER

FIG. 8



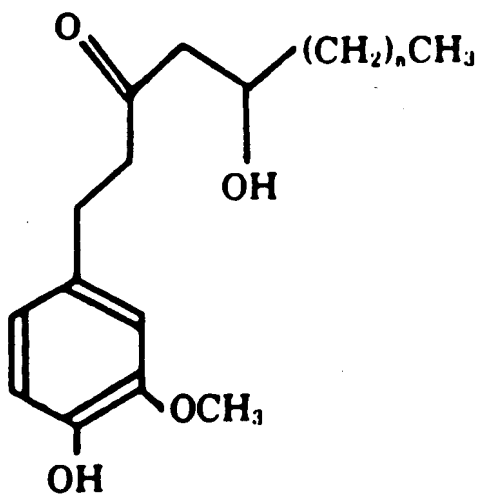
EUGENOL $C_{10}H_{12}O_2$

FIG. 9

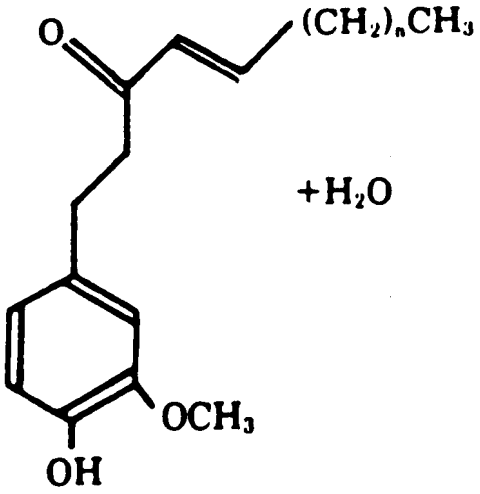


CURCUMIN $C_{21}H_{20}O_6$

FIG. 10

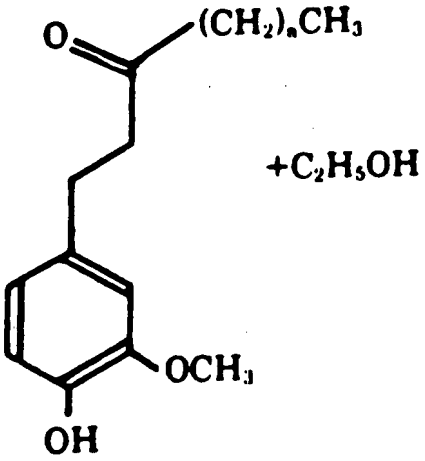


Gingerol

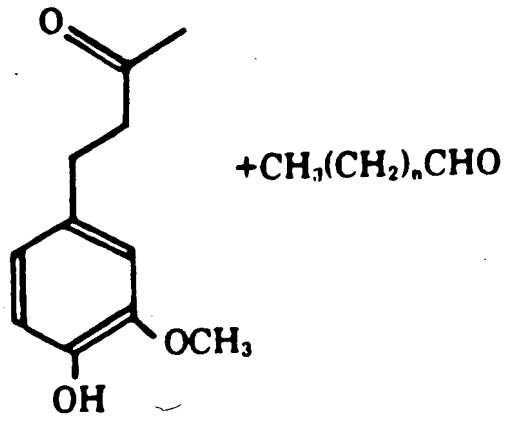


Shogaol $C_{17}H_{24}O_3$

(where n = 4,6, or 8)



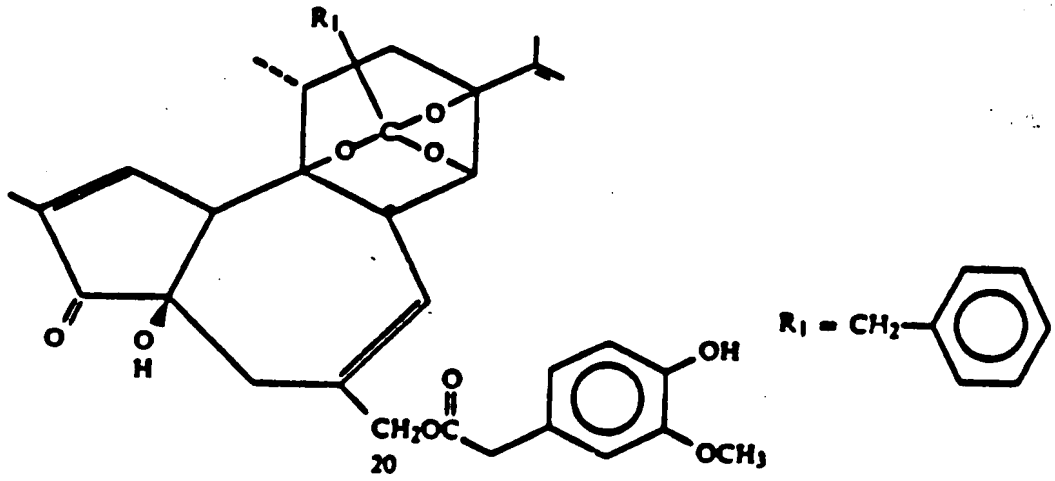
Paradol



Zingerone $C_{11}H_{14}O_3$

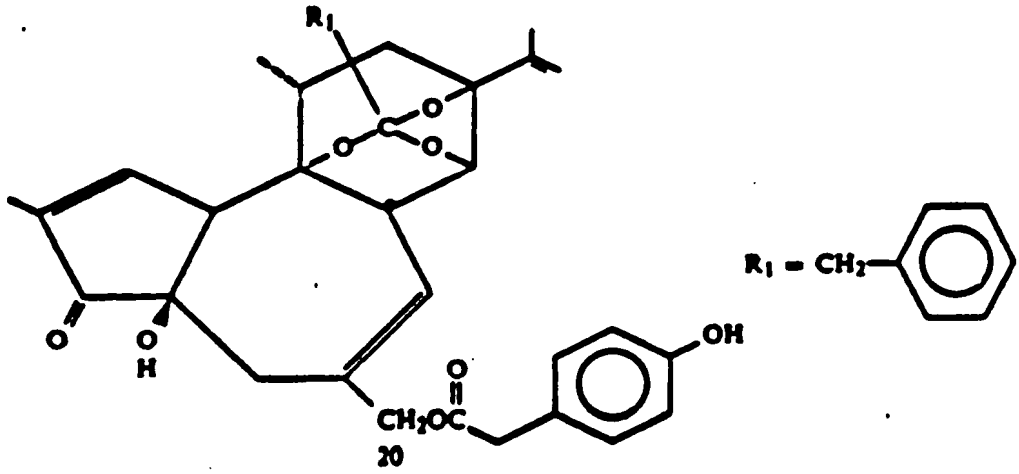
GINGEROLS

FIG. 11



RESINIFERATOXIN

FIG. 12



TINYATOXIN

FIG. 13